

## UNITED STATES DEPARTMENT OF COMMERCE Patent and Trademark Office

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09/070,699

APPLICATION NO. 7 EILING DATE 4 30/98

FIRST NAMED INVENTOR

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MM12/1209

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EXAMINER

ART UNIT

PAPER NUMBER

DATE MAILED:

12/09/99

Please find below and/or attached an Office communication concerning this application or proceeding.

**Commissioner of Patents and Trademarks** 

Application No.

## Office Action Summary

09/070,699

Applicant(s)

Dickensheets et al

Examiner

Hung N. Ngo

Group Art Unit 2874

Responsive to communication(s) filed on	·
☐ This action is <b>FINAL</b> .	
☐ Since this application is in condition for allowance except for formal in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 1	matters, prosecution as to the merits is closed 1; 453 O.G. 213.
A shortened statutory period for response to this action is set to expire is longer, from the mailing date of this communication. Failure to response application to become abandoned. (35 U.S.C. § 133). Extensions of time 37 CFR 1.136(a).	and within the period for response will cause the
Disposition of Claims	
X Claim(s) 44-72	is/are pending in the application.
Of the above, claim(s)	is/are withdrawn from consideration.
	is/are allowed.
Claim(s)	
☐ Claims ar	
Application Papers	
☐ See the attached Notice of Draftsperson's Patent Drawing Review	w, PTO-948.
☐ The drawing(s) filed on is/are objected to be	y the Examiner.
☑ The proposed drawing correction, filed on Sep 28, 1999 is	
☐ The specification is objected to by the Examiner.	
$\hfill\Box$ The oath or declaration is objected to by the Examiner.	
Priority under 35 U.S.C. § 119	
Acknowledgement is made of a claim for foreign priority under 3	5 U.S.C. § 119(a)-(d).
☐ All ☐ Some* ☐ None of the CERTIFIED copies of the pri	ority documents have been
☐ received.	
received in Application No. (Series Code/Serial Number)	
$\square$ received in this national stage application from the Internation	tional Bureau (PCT Rule 17.2(a)).
*Certified copies not received:	
Acknowledgement is made of a claim for domestic priority under	35 U.S.C. § 119(e).
Attachment(s)	
X Notice of References Cited, PTO-892	
Information Disclosure Statement(s), PTO-1449, Paper No(s).	
☐ Interview Summary, PTO-413	
☐ Notice of Draftsperson's Patent Drawing Review, PTO-948	
□ Notice of Informal Patent Application, PTO-152	
SEE OFFICE ACTION ON THE FOLI	LOWING PAGES

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The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 44-50, 53 and 54 are rejected under 35 U.S.C. 102(b) as being anticipated by Blonder (4,932,745).

Blonder discloses a substrate (FSS), a beam steering mens (MS1), a cavity (LR3), and an optical path (F1,F3).

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 51, 52 and 55 are rejected under 35 U.S.C. 103(a) as being unpatentable over Blonder (4,932,745).

Most of the commonly used material for supporting optical waveguide such as silicon,
Lithium Niobate, etc. having different etching rate in different crystallographic planes. It is also
well known in the art that V-groove can easily be formed on the surface of material having
different etching rate in different crystallographic planes. Anisotropically etch is best suitable

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method for forming groove having precisely flat side walls. The groove in the reference required groove being formed precisely to reduce optical loss.

Claims 70-72 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claims 70 is incomplete.

Claims 56-69 are allowed.

Any inquiry concerning this communication should be directed to Hung Ngo at telephone number (703) 308-0297.

Hung N. Ngo Primary Examiner Art Unit 2874